

Application No. : 10/780,350
 Filed : February 16, 2004

IN THE CLAIMS

Please **AMEND** Claims 87-92, 97-100, 102-103, 106-112, 116-119, 121-122, 125, 132, 134-136, 149, 151, 161, 168, 170-172, 179, 182-184 and 194 as follows:

1.-86. (Cancelled)

- 5 87. (Currently Amended) A first computerized device configured to place a telephone call via a circuit switched telephone network to a second computerized device, comprising:
- a telephone subscriber interface to be coupled to the circuit switched telephone network;
 - a computer readable medium that stores instructions;
 - a set of digital circuits that includes a processor, wherein the processor executes the
- 10 instructions to enable the set of digital circuits to cooperatively function to:
- cause a set of telephone dialing digits to be coupled via the telephone subscriber interface to the circuit switched telephone network to cause a circuit-switched telephone call to be placed to the second computerized device, ~~and a telephone ringing signal indication to be delivered by the telephone network to the second computerized device,~~
- 15 wherein a circuit-switched telephone connection is established to couple into communication the first and second computerized devices;
- cause a data segment packet to be sent ~~from the first computerized device~~ to the second computerized device via by coupling from the first computerized device, an indication of the telephone dialing digits used to establish the established circuit-switched
- 20 telephone connection, to a remote server that determines an address of the second computerized device based upon the indication of the dialing digits, wherein the data ~~segment comprises information~~ address is used to set up a packet switched data connection between the first and second computerized devices; and
- cause data to be communicated from the first computerized device to the second
- 25 computerized device utilizing the packet switched data connection;
- wherein the packet switched data connection is established via a packet switched transmission path that is different than a circuit-switched transmission path over which the circuit-switched telephone connection is established, and wherein at least one of the computerized devices is a user computerized device with a user interface, and the packet
- 30 switched data connection is used to carry application layer data for presentation to a user via the

Application No. : 10/780,350
Filed : February 16, 2004

user interface while the circuit-switched telephone call is in progress between the first computerized device and the second computerized device.

88. (Currently Amended) The first computerized device of Claim 87, ~~wherein the data segment comprises a set of tones automatically generated by the first computerized device, and wherein the tones are sent through the established circuit-switched telephone connection~~ further comprising:

a digital video camera; and

wherein the first computerized device is a wireless telephone, the second computerized device is a wireless telephone, the address is an application layer address, and the packet-switched data connection is used to transfer digital video data captured by the digital video camera.

89. (Currently Amended) The first computerized device of Claim 87, wherein the ~~address data segment comprises a set of touch tones entered by a user, and wherein the tones are transmitted through the circuit-switched telephone connection~~ an application layer address.

90. (Currently Amended) The first computerized device of Claim 87 ~~89~~, further comprising a digital camera, and wherein the first computerized device is a wireless smart telephone, the second computerized device is a wireless telephone, and the packet-switched data connection is used to transfer digital picture data captured by the digital camera.

91. (Currently Amended) The first computerized device of Claim 87 ~~89~~, further comprising a digital video camera, and wherein the first computerized device is a wireless smart telephone, the second computerized device is a wireless telephone, and the packet-switched data connection is used to transfer digital video data captured by the digital video camera.

92. (Currently Amended) The first computerized device of Claim 87 ~~89~~, further comprising a user input device and a graphical user interface, and wherein the first computerized device is a wireless smart telephone, the second computerized device is a wireless telephone, and the packet-switched data connection is used to transfer real-time textual application sharing data.

93. (Previously Presented) The first computerized device of Claim 87, wherein the telephone subscriber interface comprises a voice channel of a wireless air interface, and both the circuit-switched telephone connection and the packet data connection are multiplexed for communication via the wireless air interface.

Application No. : 10/780,350
Filed : February 16, 2004

94. (Previously Presented) The first computerized device of Claim 87, wherein the first computerized device implements a client-side application program communication protocol and the second computerized device implements a server-side application program communication protocol.

5 95. (Previously Presented) The first computerized device of Claim 87, wherein the first computerized device implements a server-side application program communication protocol and the second computerized device implements a client-side application program communication protocol.

10 96. (Previously Presented) The first computerized device of Claim 87, wherein the telephone subscriber interface comprises a voice channel of a wireless air interface, and both the circuit-switched telephone connection and the packet data connection are multiplexed for communication via the wireless air interface.

97. (Currently Amended) The first computerized device of Claim 87, wherein the ~~data segment~~ address comprises a session layer address.

15 98. (Currently Amended) The first computerized device of Claim 87, wherein the ~~data segment~~ address comprises a transport layer address.

99. (Currently Amended) The first computerized device of Claim 87, wherein the ~~data segment~~ address comprises a network layer address.

20 100. (Currently Amended) The first computerized device of Claim 87, wherein the ~~data segment~~ address comprises an application layer address and the packet switched data connection comprises at least a path through the global ubiquitous Internet.

101. (Previously Presented) The first computerized device of Claim 87, wherein the packet switched data connection comprises a TCP/IP stream socket established across the Internet.

25 102. (Currently Amended) The first computerized device of Claim 87, wherein the packet switched data connection is established using a data segment that is a SYN segment in a TCP/IP connection setup sequence.

103. (Currently Amended) The first computerized device of Claim 87, wherein the packet switched data connection is established using a data segment that is a SYN segment.

Application No. : 10/780,350
Filed : February 16, 2004

104. (Previously Presented) The first computerized device of Claim 103, wherein the SYN segment comprises a packet switched network address defined in at least one protocol layer from the group consisting of the network layer, the transport layer, the session layer and the application layer.

5 105. (Previously Presented) The first computerized device of Claim 87, wherein at least one of the first and second computerized devices is a smart telephone device.

106. (Currently Amended) A second computerized device for use in a system where a first computerized device initiates a telephone call via a circuit switched telephone network to the second computerized device, comprising:

10 a telephone subscriber interface to be coupled to the circuit switched telephone network;
a computer readable medium that stores instructions;
a set of digital circuits that includes a processor, wherein the processor executes the instructions to enable the set of digital circuits to cooperatively function to:

15 detect at the telephone subscriber interface an incoming telephone call generated in response to a set of telephone dialing digits coupled by the first computerized device to the circuit switched telephone network, ~~wherein the incoming telephone call includes a telephone ringing signal;~~

responsive to the detection, cause the telephone subscriber interface to be placed into an off-hook state to establish a circuit switched telephone connection with the first
20 computerized device;

~~receive identify a data packet segment received at the second computerized device~~
~~telephone subscriber interface, the data packet containing an address having been~~
~~produced in response to an indication of the dialing digits used by from the first~~
~~computerized device via the established~~ to establish the circuit switched telephone
25 connection;

cause a packet switched data connection to be established with the first computerized device at least partially by using ~~at least partially information contained in the data segment~~ the address; and

30 cause application layer data to be communicated between the first and second computerized devices via the packet switched data connection;

Application No. : 10/780,350
Filed : February 16, 2004

wherein the packet switched data connection is established via a packet switched transmission path that is different than a circuit-switched transmission path over which the circuit-switched telephone connection is established, and wherein at least one of the first and second computerized devices is a user computerized device with a user interface, and the packet switched data connection is used to carry the application layer data for presentation to a user via the user interface while the circuit-switched telephone call is in progress between the first computerized device and the second computerized device.

107. (Currently Amended) The second computerized device of Claim 106, ~~wherein the data segment comprises a set of tones automatically generated by the first computerized device, and wherein the tones are received by the second computerized device via the established circuit switched telephone connection. further comprising:~~

a digital video camera; and

wherein the first computerized device is a wireless telephone, the second computerized device is a wireless telephone, the address is an application layer address, and the packet-switched data connection is used to transfer digital video data captured by the digital video camera.

108. (Currently Amended) The second computerized device of Claim 106, wherein the ~~data segment address comprises a set of touch tones entered by a user at the first computerized device and the touch tones are received by the second computerized device via the circuit switched telephone connection~~ an application layer address.

109. (Currently Amended) The second computerized device of Claim ~~106~~ 108, further comprising a digital camera, and wherein the first computerized device is a wireless smart telephone, the second computerized device is a wireless telephone, and the packet-switched data connection is used to transfer digital picture data captured by the digital camera.

110. (Currently Amended) The second computerized device of Claim ~~106~~ 108, further comprising a digital video camera, and wherein the first computerized device is a wireless smart telephone, the second computerized device is a wireless telephone, and the packet-switched data connection is used to transfer digital video data captured by the digital video camera.

111. (Currently Amended) The second computerized device of Claim ~~106~~ 108, further comprising a user input device and a graphical user interface, and wherein the first computerized

Application No. : 10/780,350
Filed : February 16, 2004

device is a wireless smart telephone, the second computerized device is a wireless telephone, and the packet-switched data connection is used to transfer real-time textual application sharing data.

112. (Currently Amended) The second computerized device of Claim ~~106~~ 108, wherein the telephone subscriber interface comprises a voice channel of a wireless air interface, and wherein both the circuit-switched telephone connection and the packet data connection are multiplexed for communication via the wireless air interface.

113. (Previously Presented) The second computerized device of Claim 106, wherein the first computerized device implements a client-side application program communication protocol and the second computerized device implements a server-side application program communication protocol.

114. (Previously Presented) The second computerized device of Claim 106, wherein the first computerized device implements a server-side application program communication protocol and the second computerized device implements a client-side application program communication protocol.

115. (Previously Presented) The second computerized device of Claim 106, wherein the telephone subscriber interface comprises a voice channel of a wireless air interface, and wherein both the circuit-switched telephone connection and the packet data connection are multiplexed for communication via the wireless air interface.

116. (Currently Amended) The second computerized device of Claim 106, wherein the ~~data segment~~ address comprises a session layer address.

117. (Currently Amended) The second computerized device of Claim 106, wherein the ~~data segment~~ address comprises a transport layer address.

118. (Currently Amended) The second computerized device of Claim 106, wherein the ~~data segment~~ address comprises a network layer address.

119. (Currently Amended) The second computerized device of Claim 106, wherein the ~~data segment~~ address comprises an application layer address, and the packet switched data connection comprises at least a path through the global ubiquitous Internet.

120. (Previously Presented) The second computerized device of Claim 106, wherein the packet switched data connection comprises a TCP/IP stream socket established across the Internet.

Application No. : 10/780,350
Filed : February 16, 2004

121. (Currently Amended) The second computerized device of Claim 106, wherein the packet switched data connection is established using a data segment that is a SYN segment in a TCP/IP connection setup sequence.

5 122. (Currently Amended) The second computerized device of Claim 106, wherein the packet switched data connection is established using a data segment that is a SYN segment.

123. (Previously Presented) The second computerized device of Claim 122, wherein the SYN segment comprises a packet switched network address defined in at least one protocol layer from the group consisting of the network layer, the transport layer, the session layer and the application layer.

10 124. (Previously Presented) The second computerized device of Claim 106, wherein at least one of the first and second computerized devices is a smart telephone device.

125. (Currently Amended) A computerized system comprising:
a computer readable medium that stores instructions;
a set of digital circuits that includes a processor, wherein the processor executes the
15 instructions to enable the set of digital circuits to cooperatively function to:

cause a set of telephone number dialing digits to be coupled at least indirectly to a telephone network, wherein the set of telephone number dialing digits identify a recipient telephony subscriber endpoint device, and to cause an outgoing communication to be sent from the computerized device, wherein the outgoing communication follows a route at
20 least partially through the telephone network to the recipient telephony subscriber endpoint device based upon the telephone number dialing digits;

cause a data segment to be sent as a part of the outgoing communication to the recipient telephony subscriber endpoint device, wherein the data segment contains at least a packet switched network address used by the recipient telephony subscriber endpoint
25 device to establish a packet switched data connection, wherein once the packet switched data connection is established, the packet switched data connection is at least indirectly coupled to an application layer program in the recipient telephony subscriber endpoint device; and

cause a data packet to be sent to the recipient telephony subscriber endpoint
30 device via the packet switched data connection;

Application No. : 10/780,350
Filed : February 16, 2004

wherein the packet switched data connection is established via a packet switched transmission path that is different than the route followed by the outgoing communication through the telephone network to the recipient telephony subscriber endpoint device based upon the set of telephone number dialing digits[.]; and

5 wherein the telephone dialing digits are specified at a first telephony subscriber endpoint device by a first user.

126. (Previously Presented) The computerized system of Claim 125, wherein the packet switched data connection is a session layer packet switched data connection and the data packet sent to the application layer program is an unsolicited data packet.

10 127. (Previously Presented) The computerized system of Claim 126, wherein the packet switched data connection uses an acknowledged packet protocol.

128. (Previously Presented) The computerized system of Claim 127, wherein the packet switched data connection comprises a TCP/IP stream socket connection.

15 129. (Previously Presented) The computerized system of Claim 125, wherein the data packet sent to the application layer program is an unsolicited data packet.

130. (Previously Presented) The computerized system of Claim 125, wherein the computerized system further comprises a telephony interface which is used to couple information to the public switched telephone network.

20 131. (Previously Presented) The computerized system of Claim 125, wherein the recipient telephony subscriber endpoint device is a recipient wireless subscriber device, the telephone number dialing digits correspond to the telephone number used to reach the recipient wireless subscriber device from the public switched telephone network, and the recipient wireless subscriber device is configured to receive both PSTN data packets and packet switched data packets via a multiplexed wireless path that couples the recipient wireless subscriber device to a
25 multiplexed wireless infrastructure side equipment that couples to both the public switched telephone network and a packet switched telephone network.

132. (Curently Amended) The computerized system of Claim 131, wherein the data packet sent to the recipient wireless subscriber device carries application layer data that is coupled to a second user via a user interface provided by the recipient wireless subscriber device.

Application No. : 10/780,350
Filed : February 16, 2004

133. (Previously Presented) The computerized system of Claim 125, wherein the outgoing communications path is a circuit switched voice band channel established in response to the recipient wireless subscriber device answering a telephone call.

134. (Curently Amended) The computerized system of Claim 125, wherein the outgoing communication ~~communications~~ path is a PSTN datagram path ~~that is routed~~ whose destination is determined based at least partially upon the telephone number dialing digits.

135. (Curently Amended) The computerized system of Claim 125, wherein at least one of the functions of the set of digital circuits is triggered in response to a user input entered by a second user into a user input device associated with the recipient telephony subscriber endpoint device, the first telephony subscriber endpoint device and the recipient telephony subscriber endpoint device each include at least a respective wireless handset, and the packet switched data connection is used to communicate real-time information between the first telephony subscriber endpoint device and the recipient telephony subscriber endpoint device, wherein the real-time information is a member of the group consisting of textual keystroke information, video information, digital picture information, and shared application program screen-output information.

136. (Curently Amended) The computerized system of Claim 125, wherein at least one of the functions of the set of digital circuits is triggered in response to a user input entered by a second user into a user input device associated with the recipient telephony subscriber endpoint device in response to windowed information on a display device.

137. (Previously Presented) The computerized system of Claim 125, wherein the data segment comprises a network layer address.

138. (Previously Presented) The computerized system of Claim 125, wherein the data segment comprises a transport layer address.

139. (Previously Presented) The computerized system of Claim 125, wherein the data segment comprises a session layer address.

140. (Previously Presented) The computerized system of Claim 125, wherein the data segment comprises an application layer address.

141. (Previously Presented) The computerized system of Claim 125, wherein the data segment is a SYN segment.

Application No. : 10/780,350
Filed : February 16, 2004

142. (Previously Presented) The computerized system of Claim 141, wherein the SYN segment comprises the packet switched network address, and wherein the packet switched network address is defined in at least one protocol layer from the group consisting of the network layer, the transport layer, the session layer and the application layer.

5 143. (Previously Presented) The computerized system of Claim 125, wherein the packet switched data connection is used to implement a client-server communication protocol whereby a client sends a request which is responded to by a server, and wherein the computerized system comprises the server.

10 144. (Previously Presented) The computerized system of Claim 125, wherein the packet switched data connection is used to push at least one unsolicited data packet to the recipient telephony subscriber endpoint device.

15 145. (Previously Presented) The computerized system of Claim 125, wherein the packet switched data connection is used to push at least one unsolicited data packet to the recipient telephony subscriber endpoint device, and wherein the recipient telephony subscriber endpoint device is a wireless device that couples to an infrastructure side equipment via a multiplexed wireless signal path.

146. (Previously Presented) The computerized system of Claim 125, wherein the computerized system comprises a server, and wherein the server makes outbound circuit switched voice band calls.

20 147. (Previously Presented) The computerized system of Claim 125, wherein the computerized system comprises a server, and wherein the server causes outbound PSTN datagrams to be routed to their destinations.

148. (Previously Presented) The computerized system of Claim 125, wherein the computerized system is a smart telephone device.

25 149. (Currently Amended) The computerized system of Claim 125, wherein ~~at least one of the computerized system and the recipient telephony subscriber endpoint device is a smart telephone device~~ the first telephony subscriber endpoint device is a wireless handset coupled at least partially via a wireless connection to the computerized system.

30 150. (Previously Presented) The computerized system of Claim 125, wherein the recipient telephony subscriber endpoint device is a smart telephone device that is at least

Application No. : 10/780,350
Filed : February 16, 2004

indirectly coupled to both the public switched telephone network and a packet switched network via a multiplexed subscriber line interface that comprises a voice telephony path and a DSL data path carried on a single subscriber telephone line.

151. (Currently Amended) The computerized system of Claim 149, wherein the
5 recipient telephony subscriber endpoint device is a wireless subscriber smart telephone device that is at least indirectly coupled to both the public switched telephone network and a packet switched network via a multiplexed subscriber wireless interface that provides multiplexed communication signal paths that respectively carry PSTN datagrams and data packets to be routed by the packet switched network, and the data packet sent to the recipient wireless
10 subscriber device carries application layer data that is coupled to a second user via a user interface provided by the recipient wireless subscriber device.

152. (Previously Presented) The computerized system of Claim 151, wherein the wireless subscriber smart telephone device is coupled via a wireless LAN to a remote handset that is in local wireless communication with the wireless subscriber smart telephone, so that the
15 remote handset can communicate with the packet switched network via the multiplexed subscriber wireless interface.

153. (Previously Presented) The computerized system of Claim 151, wherein the processor executes the instructions to cause the set of digital circuits to further cause an unsolicited data packet to be pushed to the wireless subscriber smart telephone device via the
20 packet switched data connection.

154. (Previously Presented) The computerized system of Claim 151, wherein the processor executes the instructions to cause the set of digital circuits to further cause a digital picture to be sent to the wireless subscriber smart telephone device via the packet switched data connection.

25 155. (Previously Presented) The computerized system of Claim 151, wherein the processor executes the instructions to cause the set of digital circuits to further cause at least one data packet containing digital video to be sent to the wireless subscriber smart telephone device via the packet switched data connection.

156. (Previously Presented) The computerized system of Claim 151, wherein the
30 processor executes the instructions to cause the set of digital circuits to further cause an

Application No. : 10/780,350
Filed : February 16, 2004

unsolicited data packet to be pushed to the wireless subscriber smart telephone device via the packet switched data connection, and wherein the computerized system comprises a server side computerized system.

5 157. (Previously Presented) The computerized system of Claim 151, wherein the processor executes the instructions to cause the set of digital circuits to further cause a digital picture to be sent to the wireless subscriber smart telephone device via the packet switched data connection, and wherein the computerized system comprises a server side computerized system.

10 158. (Previously Presented) The computerized system of Claim 151, wherein the processor executes the instructions to cause the set of digital circuits to further cause at least one data packet containing digital video to be sent to the wireless subscriber smart telephone device via the packet switched data connection, and wherein the computerized system comprises a server side computerized system.

15 159. (Previously Presented) The computerized system of Claim 151, wherein the processor executes the instructions to cause the set of digital circuits to further cause at least one data packet containing at least a portion of a voice mail message to be sent to the wireless subscriber smart telephone device via the packet switched data connection and wherein the computerized system comprises a server side computerized system.

20 160. (Previously Presented) The computerized system of Claim 151, wherein the processor executes the instructions to cause the set of digital circuits to further cause at least one data packet containing at least a portion of message stored in a multimedia messaging server to be sent to the wireless subscriber smart telephone device via the packet switched data connection, and wherein the computerized system comprises a server side computerized system.

25 161. (Currently Amended) A wireless subscriber telephony endpoint device that provides both a telephony connectivity and a packet data service connectivity by wirelessly coupling via a multiplexed wireless subscriber interface communication path to at least one wireless network access point that couples to separate telephony and packet switched networks, wherein the telephony network uses telephone dialing digits to identify subscriber telephony endpoints to which information is to be routed and the packet switched network supports at least network and transport communication protocol stack layers, and uses packet header information

Application No. : 10/780,350
 Filed : February 16, 2004

associated with one or more of the protocol stack layers to determine how a packet is to be routed to its destination, the wireless subscriber telephony endpoint device comprising:

a user interface capable of supporting user interactions;

a multiplexed wireless air interface to communicate with the at least one wireless network access point, wherein the multiplexed wireless air interface supports both the telephony connectivity and the packet data service connectivity;

a computer readable medium that stores instructions;

a set of digital circuits that includes a processor, wherein the processor executes the instructions to enable the set of digital circuits to cooperatively function to:

cause an incoming communication to be detected, wherein the incoming communication is directed to the wireless subscriber telephony endpoint device based upon a set of telephone number dialing digits designated by a first user at an initiating communications a first telephony subscriber endpoint device, the telephone number dialing digits identify the wireless subscriber telephony endpoint device on a wireless telephony network, and the incoming communication is routed at least partially via a route through the telephony network;

cause the incoming communication to be evaluated for the presence of a data segment, wherein the data segment contains at least an indication of a network address;

cause ~~the~~ a packet switched data connection to be established using at least partially the indication of the network address;

cause a data packet to be received via the packet switched data connection; and

cause at least a portion of the data packet to be coupled to an application layer program;

wherein the packet switched data connection is established via a packet switched transmission path through the packet switched network, and wherein the packet switched transmission path is different than the route through the telephony network followed by the incoming communication to the wireless subscriber telephony endpoint device.

162. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, wherein the packet switched data connection is a session layer packet switched data

Application No. : 10/780,350
Filed : February 16, 2004

connection and the data packet coupled to the application layer program is an unsolicited data packet.

163. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 162, wherein the packet switched data connection uses an acknowledged packet protocol.

5 164. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 163, wherein the packet switched data connection comprises a TCP/IP stream socket connection.

10 165. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, wherein the data packet coupled to the application layer program is an unsolicited data packet.

166. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, wherein the wireless subscriber telephony endpoint device further comprises a telephony interface which is used to couple information to the public switched telephone network.

15 167. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, wherein the wireless subscriber telephony endpoint device is a wireless subscriber smart telephone device adapted to receive both PSTN data packets and packet switched data packets via the multiplexed wireless subscriber interface communication path.

20 168. (Currently Amended) The wireless subscriber telephony endpoint device of Claim 167, wherein the data packet carries application layer data to be coupled to a second user via the user interface.

25 169. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, wherein the set of digital circuits further cooperatively function to establish a circuit switched voice band channel in response to the wireless subscriber telephony device answering an incoming telephone call, and an outgoing communication issued by the wireless subscriber telephony endpoint device is routed through a communications path that includes the circuit switched voice band channel.

170. (Currently Amended) The wireless subscriber telephony endpoint device of Claim 161, wherein the incoming communication is a PSTN datagram carried on a PSTN

Application No. : 10/780,350
Filed : February 16, 2004

datagram path ~~that is established~~ whose destination is determined based at least partially upon the set of telephone number dialing digits.

171. (Currently Amended) The wireless subscriber telephony endpoint device of Claim 161, further comprising a user input device, and wherein at least one of the functions of the set of digital circuits is triggered in response to a user input entered by a second user into the user input device.

172. (Currently Amended) The wireless subscriber telephony endpoint device of Claim 161, further comprising a user input device and a display device, and wherein at least one of the functions of the set of digital circuits is triggered in response to a user input entered by a second user into the user input device in response to windowed information presented on the display device.

173. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, wherein the data segment comprises a network layer address.

174. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, wherein the data segment comprises a transport layer address.

175. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, wherein the data segment comprises a session layer address.

176. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, wherein the data segment comprises an application layer address.

177. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, wherein the data segment is a SYN segment.

178. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 177, wherein the SYN segment includes a packet switched network address defined in at least one protocol layer from the group consisting of the network layer, the transport layer, the session layer and the application layer.

179. (Currently Amended) The wireless subscriber telephony endpoint device of Claim 161, wherein the packet switched data connection is used to implement a client-server communication protocol whereby a client sends a request which is responded to by a computerized device that acts as a server, and the ~~initiating communications~~ first telephony

Application No. : 10/780,350
Filed : February 16, 2004

subscriber endpoint device comprises has communicated the telephone dialing digits at least partially via a wireless connection to the server computerized device.

180. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, wherein the packet switched data connection is used to push at least one unsolicited data packet to the wireless subscriber telephony endpoint device.

181. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, wherein the packet switched data connection is used to pull at least one solicited data packet to the wireless subscriber telephony endpoint device.

182. (Currently Amended) The wireless subscriber telephony endpoint device of Claim 161, wherein the ~~initiating communications~~ first telephony subscriber endpoint device is a smart telephone device that comprises a server function, and wherein the server function makes outbound circuit switched voice band calls.

183. (Currently Amended) The wireless subscriber telephony endpoint device of Claim 161, wherein the ~~initiating communications~~ first telephony subscriber endpoint device is in communication with comprises a server, and wherein the server causes the incoming communication to be transmitted as one or more outbound PSTN datagrams ~~to be routed to their destinations~~.

184. (Currently Amended) The wireless subscriber telephony endpoint device of Claim 161, wherein the ~~initiating communications~~ first telephony subscriber endpoint device is a first wireless handset at least partially wirelessly coupled to a member of the group consisting of a smart telephone device and a computerized device that includes a server function.

185. (Previously Presented) The wireless subscriber telephony endpoint device Claim 161, wherein the wireless subscriber telephony endpoint device is a wireless subscriber smart telephone device.

186. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 185, wherein the wireless subscriber telephony endpoint device is coupled via a wireless LAN to a remote handset that is in local wireless communication with the wireless subscriber telephony endpoint device, so that the remote handset can communicate with a packet switched network via the multiplexed subscriber wireless interface communication path.

Application No. : 10/780,350
Filed : February 16, 2004

187. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 185, wherein the processor executes the instructions to cause the set of digital circuits to further cooperatively function to:

5 cause to be processed an unsolicited data packet that was pushed to the wireless subscriber telephony endpoint device via the packet switched data connection.

188. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 185, wherein the processor executes the instructions to cause the set of digital circuits to further cooperatively function to:

10 cause a digital picture to be received at the wireless subscriber telephony endpoint device via the packet switched data connection.

189. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 185, wherein the processor executes the instructions to cause the set of digital circuits to further cooperatively function to:

15 cause at least one data packet containing digital video to be sent from the wireless subscriber telephony endpoint device via the packet switched data connection.

190. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 185, wherein the user interface enables World Wide Web (WWW) browsing.

191. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 185, further comprising a digital camera.

20 192. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 185, further comprising a digital video camera.

193. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 185, further comprising a digital scanner.

25 194. (Currently Amended) The wireless subscriber telephony endpoint device of Claim 185, wherein the user interface comprises a graphical user interface that is configured to cause a screen to be popped for real-time multimedia communication with the ~~initiating communication~~ first telephony subscriber endpoint device.

195. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 185, wherein the user interface comprises a graphical user interface that is configured to

Application No. : 10/780,350
Filed : February 16, 2004

cause a screen to be popped for real-time multimedia communication with a peer communication endpoint.

196. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 185, further comprising an application sharing program that supports the transmission of a digital picture from a local application program to a remote peer application program in a real-time interactive multimedia communications session.

197. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 185, further comprising an application sharing program that supports the transmission of a digital video motion image from a local application program to a remote peer application program in a real-time interactive multimedia communications session.

198. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 196, wherein the application sharing program further is configured to support the transmission of textual key strokes received by a local application program to be transmitted to a remote peer application program for display in a window on a remote peer device.

199. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, further comprising an application sharing program that supports the transmission of textual key strokes received by a local application program via a real-time packet data communications session to a remote peer application program for real-time display in a window on a remote peer device.

200. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 199, wherein a list of system users who are currently connected to the system with active connections is maintained in a dynamic database operated by an infrastructure side computerized system.

201. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 200, wherein the respective local and remote peer applications pop a screen of information onto respective display screens of the wireless subscriber telephony endpoint device and the remote peer device, to enable respective users to interact in real time using key strokes and at least one multimedia data source.

202. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, further comprising a digital camera, and wherein the processor executes the

Application No. : 10/780,350
Filed : February 16, 2004

instructions to cause the set of digital circuits to further cause the wireless subscriber telephony endpoint device to transfer digital picture data captured by the digital camera via the packet switched data connection to a remote endpoint device.

203. (Previously Presented) The wireless subscriber telephony endpoint device of
5 Claim 161, further comprising a digital video camera, and wherein the processor executes the instructions to cause the set of digital circuits to further cause the wireless subscriber telephony endpoint device to transfer digital video data captured by the digital video camera via the packet switched data connection to a remote endpoint device.

204. (Previously Presented) The wireless subscriber telephony endpoint device of
10 Claim 161, further comprising a user input device, and wherein the user interface comprises a graphical user interface, and wherein the processor executes the instructions to cause the set of digital circuits to further cause the wireless subscriber telephony endpoint device to perform at least one of transmitting and receiving real-time textual application sharing data via the packet switched data connection.

15 205. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, wherein the processor executes the instructions to cause the set of digital circuits to further cause at least one data packet containing at least a portion of a voice mail message to be downloaded to the wireless subscriber telephony endpoint device via the packet switched data connection.

20 206. (Previously Presented) The wireless subscriber telephony endpoint device of Claim 161, wherein the processor executes the instructions to cause the set of digital circuits to further cause at least one data packet containing at least a portion of message stored in a multimedia messaging server to be downloaded to the wireless subscriber telephony endpoint device via the packet switched data connection.

25